

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A control apparatus for a fuel cell including an oxidizing gas supplying unit configured to supply an oxidizing gas to a cathode via an oxidizing gas supply line of the fuel cell, and a hydrogen supplying unit configured to supply hydrogen to an anode via a hydrogen supply line of the fuel cell, the anode having a buildup of impurities over time causing a presence of residual gas, the control apparatus comprising:

a cathode-side gas pressure detecting unit configured to detect a cathode-side gas pressure within at least one of the oxidizing gas supply line and the cathode;

a target hydrogen partial pressure determining unit configured to dynamically calculate a target hydrogen partial pressure regarding a hydrogen pressure among a gas mixture in the anode, the dynamic calculation being executed based on ~~the detected cathode-side gas pressure and~~ a required electricity generation amount;

a hydrogen supply pressure ~~calculating~~ setting unit configured to ~~calculate~~ set a hydrogen supply pressure of hydrogen to be supplied to the fuel cell to a value that is calculated based on a value that is obtained by adding the calculated target hydrogen partial pressure and the ~~to the~~ detected cathode-side gas pressure; and

a hydrogen supply control unit configured to regulate the supply of hydrogen from the hydrogen supplying unit to the fuel cell at the ~~calculated~~ set hydrogen supply ~~pressure~~ pressure.

wherein, upon activation of the fuel cell, the cathode-side gas pressure is set to atmospheric pressure.

2. (Canceled)

3. (Currently Amended) The control apparatus for a fuel cell according to claim

1, further comprising:

a fuel cell temperature detecting unit configured to detect a temperature of the fuel cell; and

a correcting unit configured to correct the calculated target hydrogen partial pressure based on the detected temperature of the fuel cell to yield a corrected target hydrogen partial pressure, wherein

the hydrogen supply pressure ~~calculating-setting~~ unit ~~calculates-sets~~ the hydrogen supply pressure of the hydrogen to be supplied to the fuel cell to a value that is calculated based on a value that is obtained by adding the corrected target hydrogen partial pressure and the detected cathode-side gas pressure.

4. (Canceled)

5. (Currently Amended) The control apparatus for a fuel cell according to claim

1, further comprising:

an exhaust unit configured to discharge residual gas remaining within at least one of the anode and the hydrogen supply line;

an exhaust control unit configured to discharge the residual gas using the exhaust unit when the hydrogen supply pressure is not within a tolerance range for gas pressure on the anode side; and

a residual gas partial pressure calculating unit configured to calculate a partial pressure of the residual gas remaining within at least one of the anode and the hydrogen supply line when the residual gas is discharged, wherein

the hydrogen supply pressure ~~calculating-setting~~ unit ~~calculates-sets~~ the hydrogen supply pressure of the hydrogen to be supplied to the fuel cell to a value that is calculated based on a value that is obtained by adding the calculated target hydrogen partial

~~pressure, pressure~~ to the detected cathode-side gas pressure and the calculated residual gas partial pressure.

6. (Currently Amended) A control method for a fuel cell comprising an oxidizing gas supplying unit configured to supply an oxidizing gas to a cathode via an oxidizing gas supply line of the fuel cell, and a hydrogen supplying unit configured to supply hydrogen to an anode via a hydrogen supply line of the fuel cell, the anode having a buildup of impurities over time causing a presence of residual gas, the method comprising:

detecting a cathode-side gas pressure within at least one of the oxidizing gas supply line and the cathode with a pressure detecting device;

dynamically calculating a target hydrogen partial pressure regarding a hydrogen pressure among a gas mixture in the anode, the dynamic calculation being executed based on ~~the detected cathode-side gas pressure and~~ a required electricity generation amount;

~~setting calculating~~ a hydrogen supply pressure of hydrogen to be supplied to the fuel cell to a value that is calculated based on a value that is obtained by adding the calculated target hydrogen partial pressure ~~and the~~ to the detected cathode-side gas pressure; and

controlling a hydrogen supply control device to regulate the supply of hydrogen from the hydrogen supplying unit to the fuel cell at the ~~calculated set~~ hydrogen supply ~~pressure, pressure~~; and

upon activation of the fuel cell, setting the cathode-side gas pressure to atmospheric pressure.

7. (Canceled)

8. (Currently Amended) The control method for a fuel cell according to claim 6, further comprising:

detecting a temperature of the fuel cell with a temperature detecting device;

correcting the calculated target hydrogen partial pressure based on the detected temperature of the fuel cell to yield a corrected target hydrogen partial pressure; and

~~setting~~ ~~calculating~~ the hydrogen supply pressure of the hydrogen to be supplied to the fuel cell to a value that is calculated based on a value that is obtained by adding the corrected target hydrogen partial pressure ~~and the~~ to the detected cathode-side gas pressure.

9. (Canceled)

10. (Currently Amended) The control method for a fuel cell according to claim 6, further comprising:

discharging residual gas when the hydrogen supply pressure is not within a tolerance range for gas pressure on the anode side;

calculating a partial pressure of the residual gas remaining within at least one of the anode and the hydrogen supply line when the residual gas is discharged; and

~~setting~~ ~~calculating~~ the hydrogen supply pressure of the hydrogen to be supplied to the fuel cell to a value that is calculated based on a value that is obtained by adding the calculated target hydrogen partial ~~pressure,~~ pressure to the detected cathode-side gas pressure and the calculated residual gas partial pressure.

11-15. (Canceled)